



Integrating the Thomson Grass Valley Group Profile[®] into the Avid Workgroup

Important Information

Avid recommends that you read all the information in this document thoroughly before installing or using any new software release.

This document describes the steps required to successfully connect an Avid NewsCutter[®] or Avid Unity[™] TransferManager system for the Windows[®] 2000 or Windows XP operating system and a Thomson Grass Valley Group Profile video file server via a Fibre Channel switch and ethernet connection.

The NewsCutter system initiates transfers to the Profile system through either a local or independent TransferManager for playback or ingest using the Emulex IP over Fibre Channel connection.

These installation instructions also provide information on making transfers between these two systems and list all known bugs and limitations associated with the software and hardware.

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If You Need Help

If you are having trouble connecting your workgroup components:

1. Retry the action, carefully following the instructions given for that task. It is especially important to check each step of your workflow.
2. Check the release notes for the latest information that might have become available *after* the documentation was published.
3. Check the documentation that came with your Avid application or your hardware for maintenance or hardware-related issues.
4. Visit the online Knowledge Center at www.avid.com/support. Online services are available 24 hours per day, 7 days per week. Search this online Knowledge Center to find answers, to view error messages, to access troubleshooting tips, to download updates, and to read/join online message-board discussions.
5. For Technical Support, please call 800-800-AVID (800-800-2843).

For Broadcast On-Air Sites and Call Letter Stations, call 800-NEWSDNG (800-639-7364).

Symbols and Conventions

This document uses the following special symbols and conventions:



A note provides important related information, reminders, recommendations, and strong suggestions.



A caution means that a specific action you take could cause harm to your computer or cause you to lose data.



An arrow indicates a known bug or limitation. Where appropriate, a workaround is provided.

Fibre Channel Workgroup Overview

The Fibre Channel workgroup is a concept that combines an Avid NewsCutter, the Grass Valley Group Profile video file server, a Fibre Channel network, and an ethernet connection. These elements are tightly integrated in an environment that enhances speed and content quality in news editing and news production. The workgroup's Fibre Channel and Ethernet connections encourage a streamlined workflow, from the ingest of raw material from the Profile to the NewsCutter, to editing of the material on the NewsCutter, to playback of the finished story on the Profile.



Playback of finished material (called “playback”) is initiated by the TransferManager software installed on the NewsCutter (in standalone workgroups) or by the TransferManager server (in Avid Unity™ workgroups). This document contains instructions on how to configure the TransferManager software in both standalone and Avid Unity workgroups. In this document, the system running the TransferManager software is referred to as the “TransferManager platform” for both types of workgroups.

The NewsCutter and the Profile store digital media in a format that is known on both systems. As a result, ingest of the material from the Profile to the NewsCutter is possible via a Fibre Channel connection.

When the material reaches the NewsCutter for editing, the Fibre Channel network allows the material to be edited and transferred between multiple NewsCutter systems. When the story is ready for broadcast, it is transferred to the Profile for playback via the Fibre Channel connection and TransferManager software. In standalone mode, each edit and playback system maintains its own storage space, while in a workgroup configuration the editors share from a single pool of storage space making a physical transfer of the material necessary.

To minimize on-air failures, an optional second Profile can be used to ensure that a backup playback system is available. The NewsCutter can make transfers using a dual-send configuration, sending media to both a primary and secondary Profile.

Setting Up the Fibre Channel Network



These installation instructions assume that basic installations for the NewsCutter and the Profile have been completed. Therefore, if you have not yet performed the basic installation for either system, you should complete that process first and then return to these installation instructions.

The NewsCutter, TransferManager, Profile, and Fibre Channel setup and installation is described in the following sections:

- [Installing Fibre Channel Drivers on the TransferManager Server or the Standalone NewsCutter](#)
- [Configuring the Profile](#)
- [Configuring the Fibre Channel Switch](#)
- [Installing Software on the TransferManager Platform](#)

When you have completed the setup process, see [“Known Bugs and Limitations”](#) on page 22.

Installing the Fibre Channel Board in the TransferManager Server or Standalone NewsCutter

For instructions on installing the board in your NewsCutter and, depending on your type of workgroup, TransferManager server, see the documentation included with the Fibre Channel adapter.

The Profile is shipped with the Fibre Channel adapter pre installed.

The Emulex LP1050 card should be located in the following slots:

- SR2200 system - middle slot
- ISP2150 system - top slot



The standard Emulex driver for Avid Unity is pre-installed for use when Emulex card is in the bottom slot (Location 4).

Installing Fibre Channel Drivers on the TransferManager Server or the Standalone NewsCutter



The Emulex LP1050 fibre channel card is recommended. The Emulex LP8000 and LP982 fibre channel cards are supported. The Emulex LP1050 and LP982 fibre channel cards are shipped with the required firmware. If you are using an Emulex LP8000 fibre channel card, you can obtain the firmware from the Emulex Web site at www.emulex.com.

After you install the Fibre Channel board, you must install the required Emulex drivers. The required Emulex drivers are provided on the Avid Unity TransferManager CD. Search the CD for the Profile folder. The driver version 5.2.21.8 has been tested.

The driver files are WinZip® files located on the TransferManager CD. You need to copy the files from the TransferManager CD to your system drive. You will need WinZip to access the files.

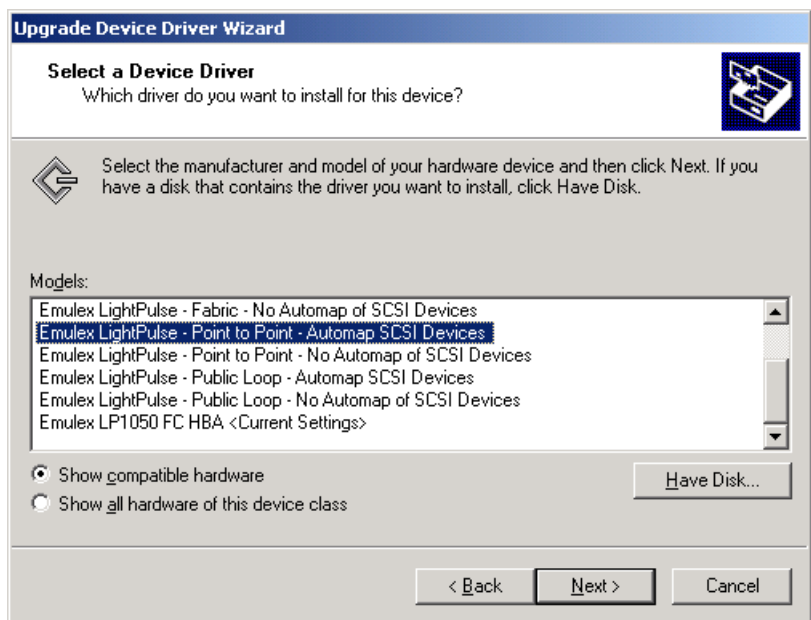
To copy the drivers from the TransferManager CD to the TransferManager server or standalone NewsCutter:

1. Create the following folder on the TransferManager server or standalone NewsCutter: D:\Installers
2. Open the TransferManager CD.
3. Open to the Profile folder.
4. Copy the files in the Profile folder to D:\Installers folder.
5. From the D:\Installers folder, unzip each zipped file into the same folder.

To install the necessary firmware and drivers, follow these steps:

1. Right-click My Computer and select Manage.
2. Select Device Manager.
3. Right-click Fibre Channel Controller (the one with the yellow exclamation).
4. Select Properties and click the Driver tab.
5. Select Update Driver and click Next.
6. Select Search for Suitable driver for my device.
7. Click Next.
8. Select Specify a Location.

9. Click Next.
10. Browse to the D:\Installers\Emulex LP982_LP1050 folder.
11. Select **elxscsi.inf** and click Open.
12. Click OK.
13. Click Next to install the driver.
This step takes a few minutes.
14. Click Finish.
15. Click Update Driver.
16. Click Next.
17. Click Display list of Known Drivers and click Next.
18. Select “Point to Point Automap SCSI devices”.



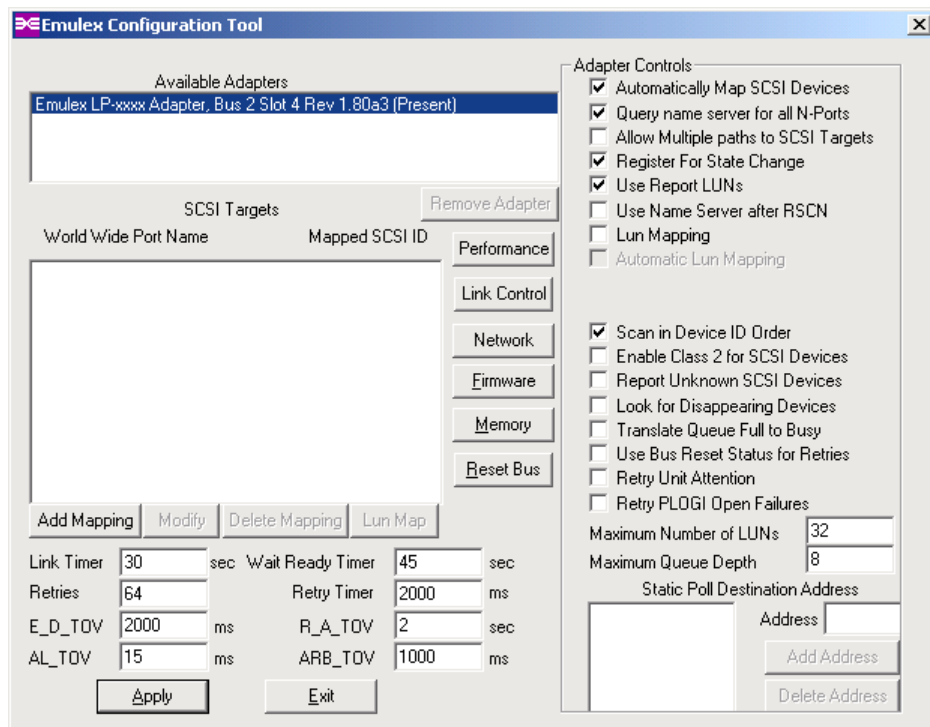
19. Click Next.
20. Click Next.
The SCSI driver starts installation.
21. Click Finish.
22. Click Close.

Configuring the Emulex Drivers For LP1050

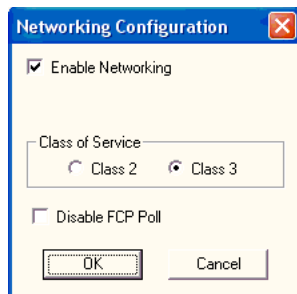
To configure the Emulex drivers for the LP1050:

1. Browse to the D:\Installers\Emulex LP982_LP1050\Applications folder.
2. Click elxcfg.exe.

The Emulex Configuration Tool opens.



3. Click Network.
4. Click Enable Networking.



5. Click OK.
6. Click Apply.
7. Click Exit.

Install the Network Driver

To install the network driver:

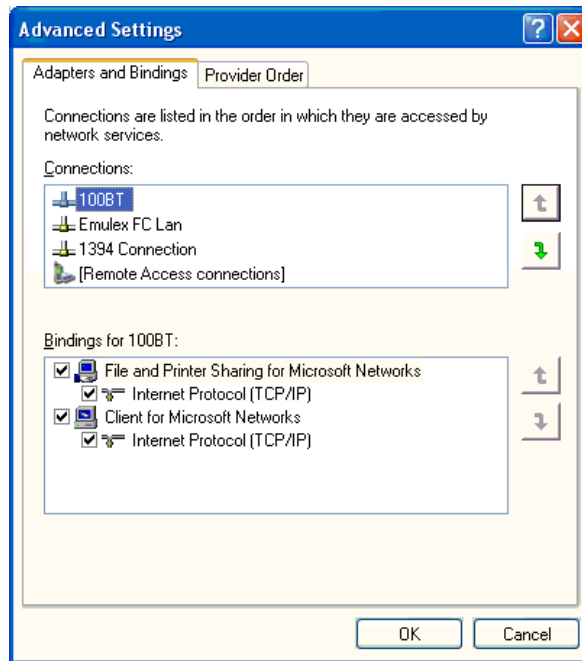
1. Right-click My Computer and select Manage.
2. Select Device Manager.
3. Click in the right hand pane of the window.
4. From Action select Scan for Hardware Changes.
The Hardware Wizard appears for a Network Adapter.
5. Click Next.
6. Select Search for Suitable driver for my device.
7. Click Next.
8. Select Specify a Location.
9. Click Next.
10. Locate the **oemsetup** file in D:\Installers\Emulex LP982_LP1050 folder.
11. Select **oemsetup.inf** and click Open.
12. Click OK
13. Click Next.
14. Click Finish.
Emulex LPX000 FC LAN should be listed under Network Adapters.
15. Close the Computer Management window.
16. Restart your system.

Setting up the Network

Before you perform this procedure verify which local area connection is your Emulex card.

To setup the network:

1. Right-click My Network Places and select Properties.
2. From the Advanced menu, select Advanced Settings.



3. Make sure your primary ethernet connection (not your Fibre Channel connection) is listed at the top of the Connections list. Use the Up and Down arrows to manipulate the list.
4. Click OK.



Any updates to drivers will change the order of the ethernet connections. You will have to repeat this procedure to ensure the primary ethernet connection is at the top of the list.

Configure the F/C Address for your TransferManager:

To configure the F/C address for your TransferManager:

1. In the Network Connections window, right click the Fibre Channel interface. Select Properties.
2. Click Configure.
3. Click Advanced and select MTU Size and set value at 32758.
4. Click OK.
5. Highlight the Internet Protocol (TCP/IP) and click Properties.
6. Set your Fibre Channel Address.
7. Click OK.
8. Click OK.

This procedure might require a restart.

Configuring the Profile

To set up the Profile for playback, you must change the Profile to Switch mode, configure the Fibre Channel adapter, and, finally, modify the Services file on the Profile and install the T Server.

Changing the Profile to Switch Mode

The Profile contains a tool that you need to open and run before attempting to use the switch for Fibre Channel transfers. This tool automatically downloads the microcode necessary to put the Profile in Switch mode.

To download the microcode:

1. Quit all applications and log in as an administrator on the Profile.
2. Click the Start button and select Programs > PDR Debug Tools > FC Switch-mode Microcode.

The FC Switch-mode Microcode dialog box appears.

3. Press Enter.
4. Restart the Profile.

Configuring the Fibre Channel Adapter

The Configuration Manager software that runs on the Profile allows you to configure your Fibre Channel adapter and to enable playback from the TransferManager or Standalone NewsCutter to the Profile.

To configure the Fibre Channel adapter:

1. Start the Configuration Manager on the Profile.
2. Select Options > Fibre Channel Networking.

The Fibre Channel Network Configuration dialog box appears.

3. Type the Profile's IP Address and Netmask in the corresponding text boxes.

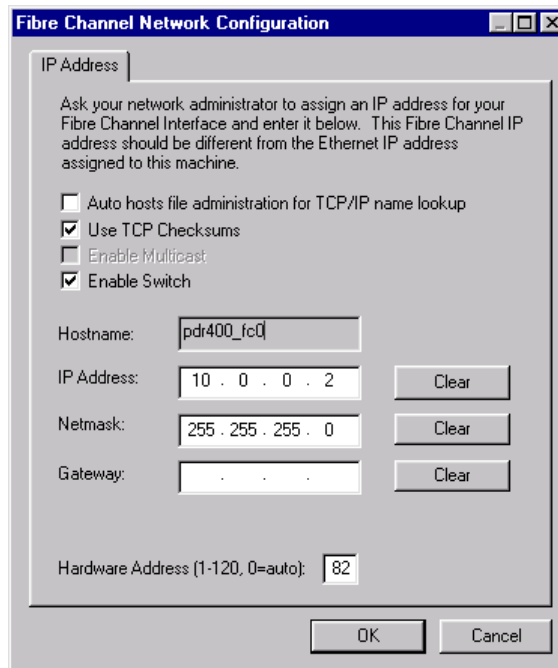


Your network administrator should provide the network number (for example, 10.0) for the Fibre Channel address. This number must be different from the network number for the Ethernet address (for example, 154.165). A Fibre Channel network number beginning with 10 is recommended, as this number is a reserved Class A network for private intranets.

4. Select the additional options shown in the following illustration.
5. Type a unique hardware address (obtained from your network administrator) in the Hardware Address text box. This number must be different for each Profile in the workgroup and *cannot* be 0 (auto configure).
6. Record the Hostname and IP Address. You will use this information in the TransferManager platform's Hosts file. (See [“Modifying the Hosts File” on page 14.](#))



Make sure the Use TCP Checksums option is selected.



Fibre Channel Network Configuration

IP Address

Ask your network administrator to assign an IP address for your Fibre Channel Interface and enter it below. This Fibre Channel IP address should be different from the Ethernet IP address assigned to this machine.

☐ Auto hosts file administration for TCP/IP name lookup

☒ Use TCP Checksums

☐ Enable Multicast

☒ Enable Switch

Hostname:

IP Address:

Netmask:

Gateway:

Hardware Address (1-120, 0=auto):

Modifying the Services File on the Profile

You must enable the TransferManager platform's Playback Protocol in the Services file on the Profile.

To configure the Services file:

1. Open Notepad on the Profile.
2. Open the Services file located in the following directory:

C:\Winnt\system32\drivers\etc\Services

3. Add the following in the Services file:

```
com.avid.mct6532/tcp
com.avid.pbp6535/tcp
com.avid.xmgr6539/tcp
```

You should place this entry in the appropriate ascending numeric location according to the numbers contained in the Services file.



The TransferManager software will not be able to transfer to the Profile without these changes.

Modifying the Hosts File

For the TransferManagers and Profiles to communicate, the Hosts files for the TransferManager platform and the Profiles must have the TCP/IP and Fibre Channel addresses added manually.

To add the TCP/IP and Fibre Channel addresses:

1. Open Notepad on the TransferManager platform.
2. Open the Hosts file located in the following directory:
C:\Winnt\system32\drivers\etc\Hosts
3. Setup the Hosts file.

The following is an example of how to set the hosts file on the TransferManager server or Avid editor running local TransferManager. This allows you to send to a Mirrored profile configuration (2 Profiles simultaneously) or to a single Profile system.

In addition to the conventional naming in the hosts file an additional line must be added that will serve as an alias. (MIRROR has been used for this setup, more specifics will need to be added. Ex: MIRRORXP1 as more Profiles are added.) IP addresses need to be the same for the conventional and new names.

TGV Profile LAN Address Range (3.199.56.51 to 3.199.56.70)

3.199.56.51	NYDPSXP01	nydpsxp01	XP01	xp01
3.199.56.51	MIRROR	mirror		
3.199.56.52	NYDPSXP02	nydpsxp02	XP02	xp02
3.199.56.52	MIRROR2	mirror2		
3.199.56.53	NYDPSXP03	nydpsxp03	XP03	xp03
3.199.56.54	NYDPSXP04	nydpsxp04	XP04	xp04

Options for hosts file setup:

The following examples can be used for Profile configurations:

- Send to a Single Profile:

3.199.31.51 NYDPSXP01_fc0 NYDPSXP01_fc0_0

- Send to separate Profiles (one at a time):

3.199.31.51 NYDPSXP01_fc0 NYDPSXP01_fc0_0

3.199.31.52 NYDPSXP02_fc0 NYDPSXP02_fc0_0

- Send to a Profile and have data mirror to a second Profile simultaneously:

3.199.31.51 NYDPSXP01_fc0 NYDPSXP01_fc0_0

3.199.31.52 NYDPSXP02_fc0 NYDPSXP02_fc0_0 NYDPSXP01_fc0_1

The send will go to XP01 and data to XP01 will be also sent to XP02.

To have both options (Mirror or single send) the above described alias name must be implemented into the fc0 setup.

3.199.31.51 NYDPSXP01_fc0 NYDPSXP01_fc0_0

3.199.31.51 MIRROR_fc0 MIRROR_fc0_0

3.199.31.52 NYDPSXP02_fc0 NYDPSXP02_fc0_0

3.199.31.52 MIRROR2_fc0 MIRROR2_fc0_0 MIRROR_fc0_1

This will allow the Single sends to happen with the conventional names (NYDPSXP01 and NYDPSXP02) and the Mirrored sends to happen through the alias name (MIRROR).

The alias name MIRROR that is mapping to the IP for the mirrored send to will need to be added to the TM config file on the TransferManager Server or Editor (local mode). In this example “MIRROR” was entered into the TM config send to playback section. (TransferManager server will then be able to find to correct IP to initiate mirrored transfers).

4. Save the file.

Repeat this process for each TransferManager platform and Profile on the network that you will use for transfers.

Installing the Grass Valley Transfer Server Application



For the latest information on installing the Grass Valley Transfer Server application, search for this document on the Avid Knowledge Center at www.avid.com.

Install the Grass Valley Transfer Server application (Tserver) software on the Profile PDR 400 system. The Tserver software enables transfers to the TransferManager.

To install the Tserver software:

1. Open the TransferManager CD.
2. Copy the file Profile\Tserver_2104.zip to C:\Installers folder.
3. From the C:\Installers folder, unzip the Tserver_2104.zip file to the same folder.
4. Double-click Setup, which starts the installation of the software. You may receive a message indicating you are running Windows 2000. Click OK.
5. Click Next in the Welcome window.
6. Select the default location, which is the C:\Profile directory, in the Choose Destination Location window.
7. Click Next.
8. Click Yes to restart your Profile.

Adding the Tserver Application to the Start Menu

The Tserver application is included with the Grass Valley Group Profile software.

To add Tserver to the Start menu:

1. Click the Start button, and select Settings > Taskbar.
The Taskbar Properties dialog box appears.
2. Click the Start Menu Programs tab and then click Add.
The Create Shortcut dialog box appears.
3. Click Browse and navigate to the C:\Profile directory.

4. Select the Tserver.exe application and then click Open.
The Tserver application appears in the Command line text box.
5. Click Next.
The Select Program Folder dialog box appears.
6. Double-click the Startup item.
The Select a Title for the Program dialog box appears.
7. Type the name you want to see in the Start menu and then click Finish.

Configuring the Fibre Channel Switch

See the documentation shipped with the switch for instructions. Verify that the following has been performed at the factory:

- **Set the Brocade to OFFLINE.** Activate the menu display. Toggle to Operations menu. Select Operations Menu. Toggle to Switch Offline. Select Switch Offline. Select Accept? Yes Press left arrow to accept Yes. The 16 port lights should begin blinking slowly. Go back to the menu top level (Operations Menu).
- **Set Non-SCSI Tachyon Mode to 1.** Toggle to Configure menu. Select Configure Menu. Toggle to Non-SCSI Tachyon Mode. Select Non-SCSI Tachyon Mode. Toggle to “1” Select “1” Select Accept? Yes Wait while “Updating Configuration” is displayed.
- **Set VC Priority 6 and VC Priority 7 to 2.** Toggle to VC Priorities Select VC Priorities Set VC Priorities to 0, 1, 2, 2, 2, 2, 2, 2. Select settings. Select Accept? Yes. Press left arrow to accept Yes. Wait while “Updating Configuration” is displayed.

Installing Software on the TransferManager Platform

The following software must be installed on the TransferManager platform when it is configured in a workgroup:

- Avid Unity TransferManager
- Grass Valley Group Profile remote software

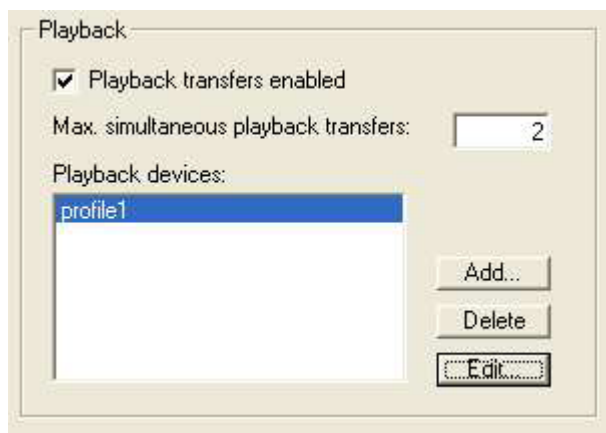


For information on obtaining the latest qualified versions of the Grass Valley Group Profile remote software, contact Grass Valley Group Product Support.

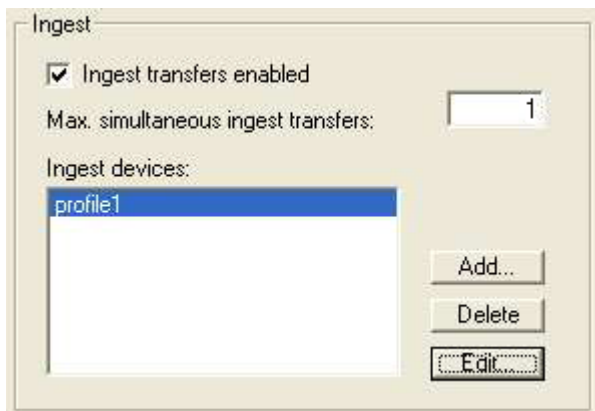
Installing Avid Unity TransferManager

Complete the installation instructions described in the *Avid Unity TransferManager Release Notes*.

Make sure when you configure the TransferManager server, you set the following parameters exactly as shown using your Profile name. This assumes you will be using the Profile for both playback and ingest. If you are not using the Profile for both playback and ingest, set the parameters according to the following table.



The screenshot shows the 'Playback' configuration window. It has a title bar 'Playback'. Inside, there is a checked checkbox 'Playback transfers enabled'. Below it is a label 'Max. simultaneous playback transfers:' followed by a text box containing the number '2'. Underneath is a label 'Playback devices:' followed by a list box containing 'profile1'. To the right of the list box are three buttons: 'Add...', 'Delete', and 'Edit...'.



The screenshot shows the 'Ingest' configuration window. It has a title bar 'Ingest'. Inside, there is a checked checkbox 'Ingest transfers enabled'. Below it is a label 'Max. simultaneous ingest transfers:' followed by a text box containing the number '1'. Underneath is a label 'Ingest devices:' followed by a list box containing 'profile1'. To the right of the list box are three buttons: 'Add...', 'Delete', and 'Edit...'.



	Playback Max. simultaneous transfers	Ingest Max. simultaneous transfers	Total Transfer Max. simultaneous transfers
Playback and Ingest	2	1	4
Playback Only	3	0	3
Ingest Only	0	1	2

Installing the Grass Valley Group Profile Remote Software

The Grass Valley remote software is installed on the NewsCutter editing systems. The remote software automatically places a shortcut to the Grass Valley Media Manager application on your desktop. Using Media Manager, you can drag clips from the Profile and drop them into the Record tool on the NewsCutter.

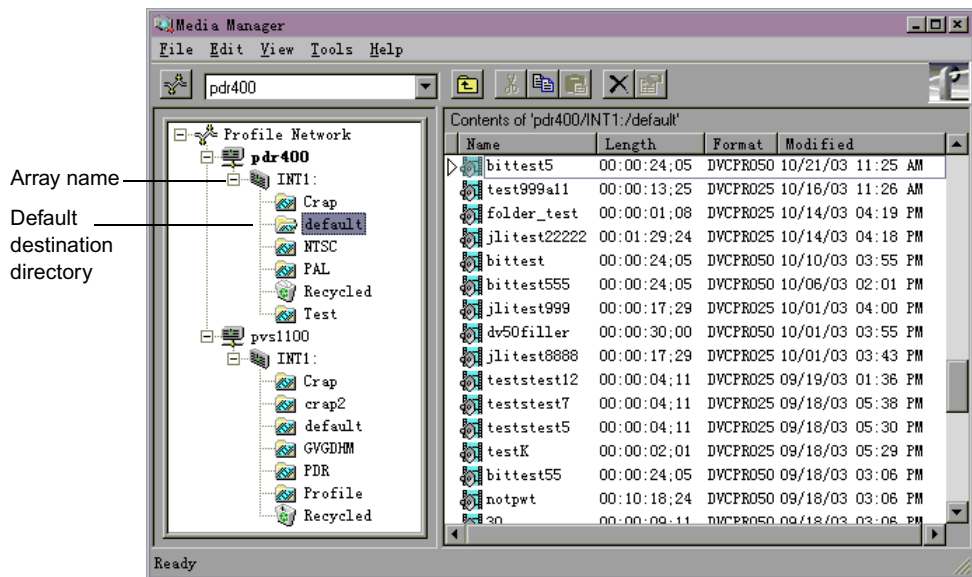
To install the profile remote software:

1. Browse to the folder D:\Installers\profile_5216s1_xp\Disk1.
2. Double-click Setup.exe.
3. Click Next.
4. Click Yes to proceed.
5. Click Yes to accept the license.
6. Click Next again.
7. Select "PC Software Installation" and click Install.
8. Click OK.
9. Click Finish to reboot.

After reboot, the Microsoft XML Parser and SDK Setup Wizard opens.

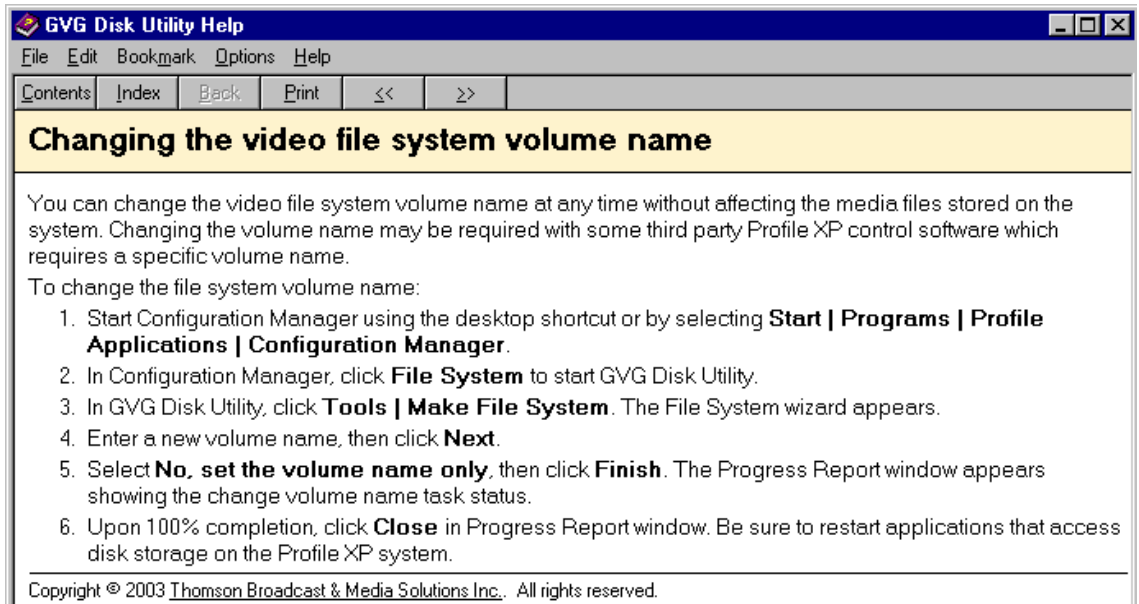
10. Click Next.
11. Select Accept the license agreement.

12. Click Next.
 13. Click Next.
 14. Click Install Now.
 15. Click Finish.
 16. From the Start menu, click Programs > Profile Application > Media Manager.
- The Grass Valley Media Manager application opens.
17. Select File > Add/Remove Machine.
 18. Click Add.
 19. Type the name of the Ethernet address of your Profile.
 20. Click OK.



21. Check for the name of the array. In the above example, it is INT1. Also verify that there is a directory named “default” in the expanded list. TransferManager relies on a default path to send media to Profile.

If the volume name is something other than INT1, for example EXT, the volume name must be changed using the following Thomson Grass Valley procedure.



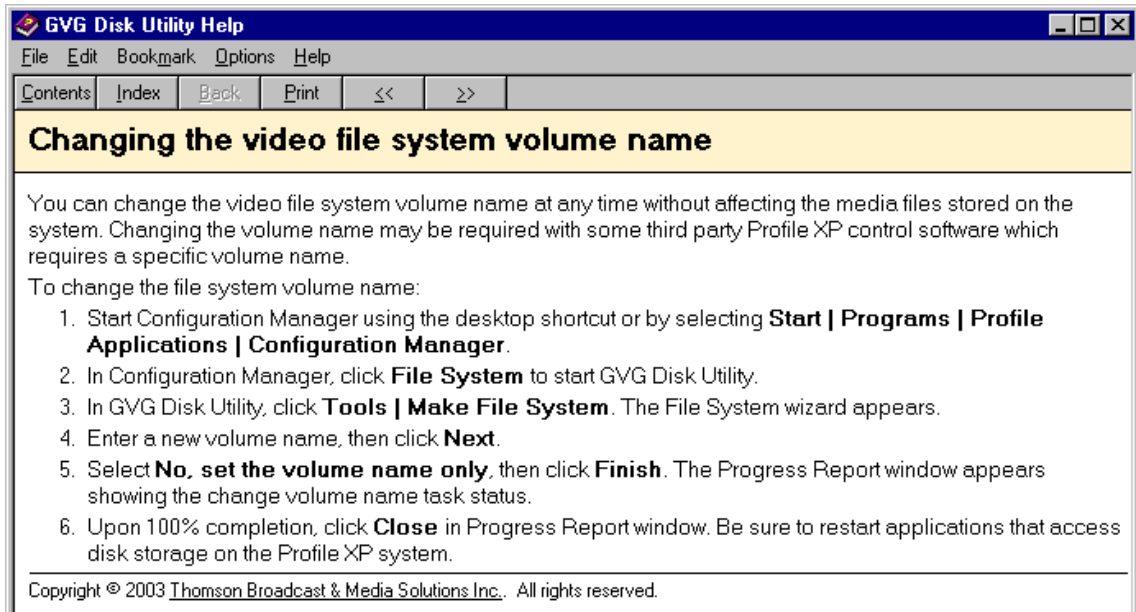
Known Bugs and Limitations

This section describes known software and hardware bugs and limitations. When a workaround exists, it appears in the paragraph directly following the bug description.

- Ingesting more than one stream is unreliable and is not currently supported.
- PAL DV 420 media is not currently supported for ingest or “Send to playback.”
- Mirrored transfers will fail if one Profile is powered down. This situation can occur if you have your Hosts files set up for a Master/Slave mirrored-transfer configuration. If either server loses power, both transfers will fail and can error-out with an “invalid tape ID” or “Req function not implemented” error.

If the failed server cannot be restarted or remains offline for an extended period of time, the Hosts file will need to be reconfigured in order to transfer. The Hosts file should be reconfigured to point at the remaining online server only.

- Overwrite will not work when sending to a target directory that is labeled anything other than INT1. This situation can occur when external drives are mounted to the Profile. The external drives will, by default, be labeled ‘EXT’ in the directory. This can cause either a “movie already exists” or “none of the profiles are reachable over FC” error. To bypass these errors you will need to rename the default external drive directory to INT1. See the following Thomson Grass Valley procedure:



- Playback and ingest transfers terminate with “None of the Profiles reachable over fiber channel” error message. This is due to a configuration issue.
- Ingested MPEG media cannot be played back in NewsCutter Adrenaline FX. Problem occurred because the channel on the Profile Video Server was not configured for MPEG D10 media. You must have MPEG D10 selected in order for it to work with NewsCutter Adrenaline FX.

Technical Support Information

Most products feature a number of coverage options. **Avid Assurance** service offerings are designed to facilitate your use of Avid solutions. Service options include extended telephone coverage, automatic software maintenance, extended hardware warranty, and preferred pricing on replacement parts.

For more information regarding Avid's service offerings, visit www.avid.com/support or call Avid Sales at 800-949-AVID (800-949-2843).

Program availability and details might vary depending on geographic location and are subject to change without notice. Contact your *local* Avid office or your *local* Avid Reseller for complete program information and pricing. However, if you need help locating an Avid office or Avid Reseller near you, please visit www.avid.com or call in North America 800-949-AVID (800-949-2843). International users call 978-275-2480.

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